

QY 61 LSTTRFQLNCTRTSITPRCPYSSRTEFNICVKCNQYPVHEAGIGRCP 111

Db 61 LSTRFOLNCTRTSITPRPCPYSSRTETNYICVCKENQYVPHFAGIGRCP 111

RESULT 2

US-09-948-391A-15
Sequence 15, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:

APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US/09/948,391A
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: Patentln Ver. 2.0
SEQ ID NO 15
LENGTH: 110
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana
OTHER INFORMATION: catesbeiana oocyte ribonuclease (RacOR1) synthetic
US-09-948-391A-15

Query Match Best Local Similarity 98.3%; Score 596; DB 9; Length 110;
Matches 109; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 QMNAFQOKHIINTPIICNTIMDNNTIYVGGCKRVTTFISSATTVKAICTGVINMNV 61
DB 1 QMNAFQOKHIINTPIICNTIMDNNTIYVGGCKRVTTFISSATTVKAICTGVINMNV 60
QY 62 LSTRFOLNCTRTSITPRPCPYSSRTETNYICVCKENQYVPHFAGIGRCP 111
DB 61 LSTRFOLNCTRTSITPRPCPYSSRTETNYICVCKENQYVPHFAGIGRCP 110

RESULT 3

US-09-948-391A-26
Sequence 26, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:

APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US/09/948,391A
PRIOR FILING DATE: 2000-08-17
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
NUMBER OF SEQ ID NOS: 43
SOFTWARE: Patentln Ver. 2.0
SEQ ID NO 26
LENGTH: 111
TYPE: PRT

ORGANISM: Artificial Sequence

FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana
OTHER INFORMATION: catesbeiana ribonuclease with Met at position 1
OTHER INFORMATION: and Gln2ser substitution (Met(-1) RacOR1 Q1S)
US-09-948-391A-26

Query Match Best Local Similarity 98.2%; Score 595; DB 9; Length 111;
Matches 109; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 QMNAFQOKHIINTPIICNTIMDNNTIYVGGCKRVTTFISSATTVKAICTGVINMNV 60
DB 1 QMNAFQOKHIINTPIICNTIMDNNTIYVGGCKRVTTFISSATTVKAICTGVINMNV 60
QY 61 LSTRFOLNCTRTSITPRPCPYSSRTETNYICVCKENQYVPHFAGIGRCP 111
DB 61 LSTRFOLNCTRTSITPRPCPYSSRTETNYICVCKENQYVPHFAGIGRCP 111

RESULT 4

US-09-948-391A-21
Sequence 21, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:

APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US/09/948,391A
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: Patentln Ver. 2.0
SEQ ID NO 21
LENGTH: 111
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana
OTHER INFORMATION: catesbeiana ribonuclease with Met at position 1,
OTHER INFORMATION: Met23Ileu and Met58Ileu substitutions (recombinant
US-09-948-391A-21)

Query Match Best Local Similarity 98.2%; Score 595; DB 9; Length 111;
Matches 108; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 QMNAFQOKHIINTPIICNTIMDNNTIYVGGCKRVTTFISSATTVKAICTGVINMNV 60
DB 1 QMNAFQOKHIINTPIICNTIMDNNTIYVGGCKRVTTFISSATTVKAICTGVINMNV 60
QY 61 LSTRFOLNCTRTSITPRPCPYSSRTETNYICVCKENQYVPHFAGIGRCP 111
DB 61 LSTRFOLNCTRTSITPRPCPYSSRTETNYICVCKENQYVPHFAGIGRCP 111

RESULT 5

US-09-948-391A-22
Sequence 22, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.

APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 22
LENGTH: 117
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana
OTHER INFORMATION: catesbelana ribonuclease with (His)6 tag, Met at
OTHER INFORMATION: Position 7, Met23Leu and Met58Leu substitutions
OTHER INFORMATION: (recombinant Met(-1) RacORI Met22Leu Met57Leu-(His)6)
US-09-948-391A-22

Query Match 98.2% Score 595: DB 9: Length 117;
Best Local Similarity 97.3% Pred. No. 5.4e-59;
Matches 108: Conservative 2: Mismatches 1: Indels 0: Gaps 0:

QY 1 MNATFOOKHIINTPIICNTIMDNNTIYVGCGCKRVTFIISATYKAICTGVINNV 60
DB 7 MNATFOOKHIINTPIICNTIMDNNTIYVGCGCKRVTFIISATYKAICTGVINNV 66
QY 61 LSTRFOLNCTRTSITPRPCPYSSRTETNYICVGCENQYPVHFAGIGRCP 111
DB 67 LSTRFOLNCTRTSITPRPCPYSSRTETNYICVGCENQYPVHFAGIGRCP 117

RESULT 6
US-09-948-391A-24
Sequence 24, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 24
LENGTH: 110
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana
OTHER INFORMATION: catesbelana ribonuclease with Glnser substitution
OTHER INFORMATION: (recombinant RacORI Q1S)
US-09-948-391A-21

Query Match 97.5% Score 591: DB 9: Length 110;
Best Local Similarity 99.1% Pred. No. 1.4e-58;

Matches 108: Conservative 0: Mismatches 1: Indels 0: Gaps 0:
QY 3 MNATFOOKHIINTPIICNTIMDNNTIYVGCGCKRVTFIISATYKAICTGVINNV 62
DB 2. MNATFOOKHIINTPIICNTIMDNNTIYVGCGCKRVTFIISATYKAICTGVINNV 61
QY 63 TTRFOLNCTRTSITPRPCPYSSRTETNYICVGCENQYPVHFAGIGRCP 111
DB 62 TTRFOLNCTRTSITPRPCPYSSRTETNYICVGCENQYPVHFAGIGRCP 110

RESULT 7
US-09-948-391A-19
Sequence 19, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 19
LENGTH: 110
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana
OTHER INFORMATION: catesbelana ribonuclease with Met22Leu and
OTHER INFORMATION: Met57Leu substitutions (recombinant RacORI
US-09-948-391A-19

Query Match 96.4% Score 584: DB 9: Length 110;
Best Local Similarity 96.4% Pred. No. 8.5e-58;
Matches 106: Conservative 2: Mismatches 2: Indels 0: Gaps 0:

QY 2 MNATFOOKHIINTPIICNTIMDNNTIYVGCGCKRVTFIISATYKAICTGVINNV 61
DB 1 MNATFOOKHIINTPIICNTIMDNNTIYVGCGCKRVTFIISATYKAICTGVINNV 60
QY 62 STTRFOLNCTRTSITPRPCPYSSRTETNYICVGCENQYPVHFAGIGRCP 111
DB 61 STTRFOLNCTRTSITPRPCPYSSRTETNYICVGCENQYPVHFAGIGRCP 110

RESULT 8
US-09-948-391A-6
Sequence 6, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27

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: PRIOR APPLICATION NUMBER: WO PCT/US99/06641
: PRIOR FILING DATE: 1999-03-26
: PRIOR APPLICATION NUMBER: US 09/622,613
: PRIOR FILING DATE: 2000-08-17
: NUMBER OF SEQ ID NOS: 43
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 6
: LENGTH: 105
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
: OTHER INFORMATION: ribonuclease with Met at position 1, (recombinant
: OTHER INFORMATION: Met(-1) RapRL1)
US-09-948-391A-6

Query Match
Best Local Similarity 46.3%, Score 280.5; DB 9; Length 105;
Matches 55; Conservative 15; Mismatches 33; Indels 9; Gaps 4;

QY 1 MGNATFOOKHIINT-PIICNTIMDNIIYVGGCKRVTTFIISATVKAICGVI-NM 58
DB 1 MGNATFOOKHIINT-PIICNTIMDNIIYVGGCKRVTTFIISATVKAICGVI-NM 56
QY 59 NVLSTTRQNLTCRTSTTPPCPYSSRTETNYICVCKENQYPVHFGIGRC 110
DB 57 NVLSTTRQNLTCRTSTTPPCPYSSRTETNYICVCKENQYPVHFGIGRC 105

RESULT 9
US-10-153-882-2
: Sequence 2, Application US/10153882
: Publication No. US20030099629A1
: GENERAL INFORMATION:
: APPLICANT: GOLDENBERG, David M.
: APPLICANT: HANSEN, Hans
: APPLICANT: LEUNG, Shui-on
: TITLE OF INVENTION: RECOMBINANT ONCONASE, AND CHEMICAL CONJUGATES AND
: FILE REFERENCE: 018733/0913
: CURRENT APPLICATION NUMBER: US/10/153,882
: CURRENT FILING DATE: 2002-05-24
: PRIOR APPLICATION NUMBER: US/09/265,901
: PRIOR FILING DATE: 1999-03-11
: PRIOR APPLICATION NUMBER: US 60/077,557
: PRIOR FILING DATE: 1998-03-11
: NUMBER OF SEQ ID NOS: 12
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 2
: LENGTH: 105
: TYPE: PRT
: ORGANISM: Rana pipiens
US-10-153-882-2

Query Match
Best Local Similarity 45.6%, Score 276.5; DB 9; Length 105;
Matches 55; Conservative 15; Mismatches 33; Indels 9; Gaps 4;

QY 1 MGNATFOOKHIINT-PIICNTIMDNIIYVGGCKRVTTFIISATVKAICGVI-NM 58
DB 1 MGNATFOOKHIINT-PIICNTIMDNIIYVGGCKRVTTFIISATVKAICGVI-NM 56
QY 59 NVLSTTRQNLTCRTSTTPPCPYSSRTETNYICVCKENQYPVHFGIGRC 110
DB 57 NVLSTTRQNLTCRTSTTPPCPYSSRTETNYICVCKENQYPVHFGIGRC 105

RESULT 10
US-09-948-391A-13
: Sequence 13, Application US/09948391A
: Publication No. US20030027311A1
: GENERAL INFORMATION:
: APPLICANT: Rybak, Susanna M.

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: APPLICANT: Newton, Dianne L.
: APPLICANT: The United States of America
: APPLICANT: as represented by The Secretary of the
: APPLICANT: Department of Health and Human Services
: TITLE OF INVENTION: Recombinant Anti-Tumor Rhase
: FILE REFERENCE: 015280-343110US
: CURRENT APPLICATION NUMBER: US/09/948,391A
: CURRENT FILING DATE: 2002-05-10
: PRIOR APPLICATION NUMBER: US 60/079,751
: PRIOR FILING DATE: 1998-03-27
: PRIOR APPLICATION NUMBER: WO PCT/US99/06641
: PRIOR FILING DATE: 1999-03-26
: PRIOR APPLICATION NUMBER: US 09/622,613
: NUMBER OF SEQ ID NOS: 43
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 13
: LENGTH: 105
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
: OTHER INFORMATION: ribonuclease with Met at position 1 and Glnzser
: OTHER INFORMATION: substitution (recombinant Met(-1) RapRL1 Q15)
US-09-948-391A-13

Query Match
Best Local Similarity 45.5%, Score 275.5; DB 9; Length 105;
Matches 54; Conservative 15; Mismatches 34; Indels 9; Gaps 4;

QY 1 MGNATFOOKHIINT-PIICNTIMDNIIYVGGCKRVTTFIISATVKAICGVI-NM 58
DB 1 MSDWLFQKHLITNTRDVCNNIMSTNLF----HCKDKNTFIYSRPEPVKAICKGIIASK 56
QY 59 NVLSTTRQNLTCRTSTTPPCPYSSRTETNYICVCKENQYPVHFGIGRC 110
DB 57 NVLSTTRQNLTCRTSTTPPCPYSSRTETNYICVCKENQYPVHFGIGRC 105

RESULT 11
US-09-948-391A-28
: Sequence 28, Application US/09948391A
: Publication No. US20030027311A1
: GENERAL INFORMATION:
: APPLICANT: Rybak, Susanna M.
: APPLICANT: Newton, Dianne L.
: APPLICANT: The United States of America
: APPLICANT: as represented by The Secretary of the
: APPLICANT: Department of Health and Human Services
: TITLE OF INVENTION: Recombinant Anti-Tumor Rhase
: FILE REFERENCE: 015280-343110US
: CURRENT APPLICATION NUMBER: US/09/948,391A
: CURRENT FILING DATE: 2002-05-10
: PRIOR APPLICATION NUMBER: US 60/079,751
: PRIOR FILING DATE: 1998-03-27
: PRIOR APPLICATION NUMBER: WO PCT/US99/06641
: PRIOR FILING DATE: 1999-03-26
: PRIOR APPLICATION NUMBER: US 09/622,613
: NUMBER OF SEQ ID NOS: 43
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 28
: LENGTH: 127
: TYPE: PRT
: ORGANISM: Rana pipiens
: FEATURE:
: OTHER INFORMATION: Rana pipiens ribonuclease (RapRL1) Clone 5a1b cDNA
: OTHER INFORMATION: insert
US-09-948-391A-28

Query Match
Best Local Similarity 45.5%, Score 275.5; DB 9; Length 127;
Matches 54; Conservative 15; Mismatches 33; Indels 9; Gaps 4;

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NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 11
LENGTH: 104
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
OTHER INFORMATION: ribonuclease with Gln158 substitution
OTHER INFORMATION: (recombinant RAP1R Q15)
US-09-948-391A-11

Query Match
Best Local Similarity 44.6%; Score 270.5; DB 9; Length 104;
Matches 53; Conservative 15; Mismatches 33; Indels 9; Gaps

QY 3 NMATPFOCKHINT-PIICNTIMDNNTIYIGGCKRVTYLLISATYKAICGV-I-NMNV 60
Db 2 DWLTFPOCKHINTNRDVCNINMSTNLF----HCKDKNFTIYSRPEVKAICGIIASKNV 57

QY 61 LSTTRPOLNTCTRTSTTPRCPYSSRTETNYICVGCENQYPVHFAIGRC 110
Db 58 LTTSEFYLSDC---NWTSRPCKYKLLKSTNTFCVTCENQAPVHFAVGVGHC 104

RESULT 14
US-09-948-391A-4
Sequence 4, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rynak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
APPLICANT: Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948, 391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 4
LENGTH: 104
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
OTHER INFORMATION: ribonuclease with Met23Leu substitution
OTHER INFORMATION: (recombinant RAP1R Met23Leu)
US-09-948-391A-4

Query Match
Best Local Similarity 44.5%; Score 269.5; DB 9; Length 104;
Matches 53; Conservative 15; Mismatches 34; Indels 9; Gaps

QY 2 QNMATPFOCKHINT-PIICNTIMDNNTIYIGGCKRVTYLLISATYKAICGV-I-NMNV 59
Db 1 QDMTTPQCKHINTNRDVCNINMSTNLF----HCKDKNFTIYSRPEVKAICGIIASKNV 56

QY 60 VLSITRQOLNTCTRTSTTPRCPYSSRTETNYICVGCENQYPVHFAIGRC 110
Db 57 VLTTFEFLSDC---NWTSRPCKYKLLKSTNTFCVTCENQAPVHFAVGVGHC 104

RESULT 15
US-09-986-119-1
Sequence 1, Application US/09986119

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1 Publication No. US20020187153A1
2 GENERAL INFORMATION:
3 APPLICANT: Rybak, Susanna M.
4 Newlon, Dianne L.
5 Goldenberg, David M.
6 TITLE OF INVENTION: Immunotoxins Directed Against Malignant
7 Cells
8 NUMBER OF SEQUENCES: 3
9 CORRESPONDENCE ADDRESS:
10 ADDRESS: Townsend and Townsend and Crew LLP
11 STREET: Two Embarcadero Center, Eighth Floor
12 CITY: San Francisco
13 STATE: California
14 COUNTRY: USA
15 ZIP: 94111-3834
16 COMPUTER READABLE FORM:
17 MEDIUM TYPE: Floppy disk
18 COMPUTER: IBM PC compatible
19 OPERATING SYSTEM: PC-DOS/MS-DOS
20 SOFTWARE: PatentIn Release #1.0, Version #1.30
21 CURRENT APPLICATION DATA:
22 APPLICATION NUMBER: US/09/986,119
23 FILING DATE: 07-May-2000
24 CLASSIFICATION: 
```

Search completed: June 25, 2003, 15:42:16
Job time : 17.6395 secs